



7/23/05

PTO/SB/21 (09-04)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	12	Application Number	09/896,137
		Filing Date	June 29, 2001
		First Named Inventor	Stephen R. Kennon
		Art Unit	2123
		Examiner Name	Kandasamy Thangavelu
		Attorney Docket Number	1048-OBJ1118-US

### ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Form PTO-1449 (6 pgs); Cited References (37); Return Receipt Postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		
<b>Remarks</b>		
CUSTOMER NO.: 34456		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	TOLER, LARSON & ABEL, LLP		
Signature			
Printed name	John R. Schell		
Date	03/21/2005	Reg. No.	50,776

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Elise K. Dougherty	Date	03/21/2005

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Effective on 10/01/2004. Patent fees are subject to annual revision.

# FEE TRANSMITTAL

## For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ 180.00)

### Complete if Known

Application Number	09/896,137
Filing Date	June 29, 2001
First Named Inventor	Stephen R. Kennon
Examiner Name	Kandasamy Thangavelu
Art Unit	2123
Attorney Docket No.	1048-OBJ1118-US

### METHOD OF PAYMENT (check all that apply)

Check     Credit Card     Money Order

Deposit Account     None

Deposit Account Number  
50-2469

Deposit Account Name  
TOLER, LARSON & ABEL, LLP

The Director is hereby authorized to: (check all that apply)

- Charge fee(s) indicated below
- Charge fee(s) indicated below, except for the filing fee
- Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17
- Credit any overpayments

to the above-identified deposit account.

Other (please identify): \_\_\_\_\_

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

### FEE CALCULATION

#### 1. BASIC FILING FEE

<u>Fee Description</u>	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>	<u>Fee Paid(\$)</u>
Utility Filing Fee	790	395	_____
Design Filing Fee	350	175	_____
Plant Filing Fee	550	275	_____
Reissue Filing Fee	790	395	_____
Provisional Filing Fee	160	80	_____

**Subtotal (1) \$ 0.00**

**Subtotal (2) \$ 0.00**

#### 2. EXTRA CLAIM FEES

<u>Fee Description</u>	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>
Each claim over 20	18	9
Each independent claim over 3	88	44
Multiple dependent claims	300	150
For Reissues, each claim over 20 and more than in the original patent	18	9
For Reissues, each independent claim more than in the original patent	88	44

Total Claims      Extra Claims      Fee (\$ )      Fee Paid (\$ )

- 20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of total claims paid for, if greater than 20

Indep. Claims      Extra Claims      Fee (\$ )      Fee Paid (\$ )

- 3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3

Multiple Dependent Claims      Fee (\$ )      Fee Paid (\$ )

\_\_\_\_\_

**Subtotal (2) \$ 0.00**

#### 3. OTHER FEES

<u>Fee Description</u>	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>	<u>Fee Paid(\$)</u>
1-month extension of time	110	55	_____
2-month extension of time	430	215	_____
3-month extension of time	980	490	_____
4-month extension of time	1,530	765	_____
5-month extension of time	2,080	1,040	_____
Information disclosure stmt. fee	180	180	180.00
37 CFR 1.17(q) processing fee	50	50	_____
Non-English specification	130	130	_____
Notice of Appeal	340	170	_____
Filing a brief in support of appeal	340	170	_____
Request for oral hearing	300	150	_____
Other:	_____	_____	_____

**Subtotal (3) \$ 180.00**

### SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 50,776	Telephone 512-327-5515
Name (Print/Type)	John R. Schell	Date 03/21/2005	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Stephen R. Kennon

Title: METHOD AND SYSTEM FOR SOLVING FINITE ELEMENT MODELS  
USING MULTI-PHASE PHYSICS

Application No.: 09/896,137 Filed: June 29, 2001

Examiner: Kandasamy Thangavelu Group Art Unit: 2123

Atty. Docket No.: 1048-OBJ1118-US

COMMISSIONER FOR PATENTS  
PO Box 1450  
Alexandria, VA 22313-1450

03/25/2005 BABRAHA1 00000055 502469 09896137  
01 FC:1806 180.00 DA

**INFORMATION DISCLOSURE STATEMENT TRANSMITTAL**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

- Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449  
 Other: n/a

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

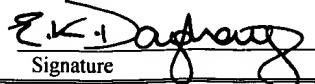
1. an admission that the information necessarily is, or corresponds to, prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described below; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance, such as through (i) an English language abstract, (ii) an English language equivalent application, (iii) reference to discussion in the application, or (iv) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents on 3-21-05.

Elise K. Dougherty  
Typed or Printed Name

  
Signature

STATEMENT UNDER 37 C.F.R. § 1.704(d)

If the above-identified application is an original application filed on or after May 29, 2000:

- each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.

FEES DUE

This Information Disclosure Statement is being filed:

- within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
- before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
- during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.
- during the period specified in § 1.97(d). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal. Additionally, each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.

Should any PTO fees be necessary for entry of this Information Disclosure Statement, the undersigned hereby authorizes the Commissioner to charge Deposit Account 50-2469.

Date

3-21-05

Respectfully submitted,



John R. Schell, Reg. No. 50,776  
Agent for Applicant(s)  
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(512) 327-5452 (fax)



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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of 6

**Complete if Known**

Application Number	09/896,137
Filing Date	June 29, 2001
First Named Inventor	Stephen R. Kennon
Art Unit	2123
Examiner Name	Kandasamy Thangavelu

Attorney Docket Number 1048-OBJ1118-US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> ( <i>if known</i> )			
A1	US- 3,029,018		04/10/1962	Floyd, Jr.	
B1	US- 3,302,710		02/07/1967	Odeh	
C1	US- 4,821,164		04/11/1989	Swanson	
D1	US- 5,255,212		10/19/1993	Kondoh et al.	
E1	US- 5,432,718		07/11/1995	Molvig et al.	
F1	US- 5,572,634		11/05/1996	Duluk, Jr.	
G1	US- 5,604,911		02/18/1997	Ushiro	
H1	US- 5,617,322		04/01/1997	Yokota	
I1	US- 5,675,521		10/07/1997	Holzhauer et al.	
J1	US- 5,699,271		12/16/1997	Sagawa et al.	
K1	US- 5,710,726		01/20/1998	Rowney et al.	
L1	US- 5,740,342		04/14/1998	Kocberber	
M1	US- 5,754,181		05/19/1998	Amdursky et al.	
N1	US- 5,891,131		04/06/1999	Rajan et al.	
O1	US- 5,966,524		10/12/1999	Burnett et al.	
P1	US- 6,014,473		01/11/2000	Hossack et al.	
Q1	US- 6,018,497		01/25/2000	Gunasekera	
R1	US- 6,028,607		02/22/2000	Chan	
S1	US- 6,041,017		03/21/2000	Goldsberry	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>if known</i> )				
T1	EP 0 709 789 A2		05/01/1996			
U1	EP 0 801 364 B1		07/30/2003		English Abstract	
V1	FR 2,775,094		08/20/1999		English Abstract	
W1	GB 2,326,747 A		12/30/1998			
X1	WO 99/40532		08/12/1999			
Y1	WO 99/52048		10/14/1999			

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 6

Application Number	09/896,137
Filing Date	June 29, 2001
First Named Inventor	Stephen R. Kennon
Art Unit	2123
Examiner Name	Kandasamy Thangavelu

Attorney Docket Number 1048-OBJ1118-US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A2	US- 6,052,520		04/18/2000	Watts, III	
B2	US- 6,054,992		04/25/2000	Gibson	
C2	US- 6,064,810		05/16/2000	Raad et al.	
D2	US- 6,070,125		05/30/2000	Murphy et al.	
E2	US- 6,078,869		06/20/2000	Gunasekera	
F2	US- 6,106,561		08/22/2000	Farmer	
G2	US- 6,191,796 B1		02/20/2001	Tarr	
H2	US- 6,313,837 B1		11/06/2001	Assa et al.	
I2	US- 6,445,390 B1		09/03/2002	Aftosmis et al.	
J2	US- 6,448,788 B1		09/10/2002	Meaney et al.	
K2	US- 6,516,080 B1		02/04/2003	Nur	
L2	US- 6,552,724 B1		04/22/2003	Marshall	
M2	US- 6,587,104 B1		07/01/2003	Hoppe	
N2	US- 6,608,628 B1		08/19/2003	Ross et al.	
O2	US- 6,674,432 B2		01/06/2004	Kennon et al.	
P2	US- 5,553,009		09/03/1996	Meshkat et al.	
Q2	US- 5,999,187		12/07/1999	Dehmlow et al.	
R2	US- 6,816,820 B1		11/09/2004	Friedl et al.	
S2	US- 2002/0032494 A1		03/14/2002	Kennon et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
T2	WO 99/57418		11/11/1999			
U2	WO 02/01251 A2		01/03/2002			
V2	WO 02/02901 A2		01/10/2002			
W2	WO 02/03101 A2		01/10/2002			
X2	WO 02/03103 A2		01/10/2002			
Y2	WO 02/03262 A2		01/10/2002			

Examiner Signature		Date Considered
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*(Use as many sheets as necessary)*

Sheet 3 of 6

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Attorney Docket Number	1048-OBJ1118-US

**U. S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> ( <i>if known</i> )			
A3	US-2002/0032550 A1		03/14/2002	Ward et al.	
B3	US-2002/0035453 A1		03/21/2002	Pond, Jr. et al.	
C3	US-2002/0046014 A1		04/18/2002	Kennon	
D3	US-2002/0067373 A1		06/06/2002	Roe et al.	
E3	US-2002/0072883 A1		06/13/2002	Lim et al.	
F3	US-2002/0082813 A1		06/27/2002	Lim et al.	
G3	US-				
H3	US-				
I3	US-				
J3	US-				
K3	US-				
L3	US-				
M3	US-				
N3	US-				
O3	US-				
P3	US-				
Q3	US-				
R3	US-				
S3	US-				

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>if known</i> )				
T3	WO 02/03263 A2		01/10/2002			
U3	WO 02/03264 A2		01/10/2002			
V3	WO 02/03265 A2		01/10/2002			
W3						
X3						
Y3						

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Sheet

4

of

6

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Filing Date	June 29, 2001
First Named Inventor	Stephen R. Kennon
Art Unit	2123
Examiner Name	Kandasamy Thangavelu

Attorney Docket Number

1048-OBJ1118-US

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A4	P.A. Forsyth, et al., "Local Mesh Refinement and Modeling of Faults and Pinchouts", SPE FORM EVALUATION, June 1986, Vol. 1, No. 3, pages 275-285. XP-002191830	
	B4	Y. Ding, et al., "Developement of Dynamic Local Grid Refinement in Reservoir Simulation", Proceedings of the 13th SPE Symposium on Reservoir Simulation, New Orleans, LA, February-March 1993, pages 501-510. XP-002191831	
	C4	S. Verna, et al., "A Control Volume Scheme for Flexible Frids in Reservoir Simulation", Proceedings of the 1997 SPE Reservior Simulation Symposium, Dallas, TX, June 1997, pages 215-227. XP-002191832	
	D4	S. Kocberber, et al., "An Automatic, Unstructured Control Volume Generation System for Geologically Complex Reservoirs", Proceedings of the 1997 SPE Reservoir Simulation Symposium, Dallas, TX, June 1997, pages 241-252. XP-002191833	
	E4	Y. Kuwauchi, et al., "Development and Applications of a Three Dimentional Voronoi-Based Flexible Grid Black Oil Reservoir Simulator", SPE Asia Specific Oil & Gas Congerence, Adelaide, Australia, October 1996, pages 1-12. XP-002191834	
	F4	R. Page, et al., "A Functional Program Describing a Simple Reservoir Model and Its Potential for Parallel Computation", Proceedings of the 1990 Symposium on Applied Computing, IEEE, April 1990, pages 85-91.	
	G4	C. Giertsen, et al., "Volume Visulization of Sparse Irregular Meshes", Computer Graphics and Applications, IEEE, Vol. 2, No. 2, March 1992, pages 40-48.	
	H4	S. Ghosh, "Curvilinear Local Grid Refinement", SPE 50633, SPE European Petroleum Conference, The Netherlands, 20-22 October, 1998.	
	I4	H. N. Sharpe, et al., "A New Adaptive Orthogonal Grid Generation Procedure for Reservoir Simulation" 65th Annual Technical Conference and Exhibition of the Society of Petroleum Engineers, New Orelans, LA, September 23-26, 1990.	
	J4	M. Wheeler, et al., "A Parallel Multiblock/Multidomain Approach for Reservoir Simulation", Proceedings of the 1999 15th Symposium on Reservoir Simulation, Houston, TX, February 1999. XP-002188857	

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STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

<b>Application Number</b>	09/896,137
<b>Filing Date</b>	June 29, 2001
<b>First Named Inventor</b>	Stephen R. Kennon
<b>Art Unit</b>	2123
<b>Examiner Name</b>	Kandasamy Thangavelu

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	A5	D. Kahaner, et al., "An Experimental Algorithm for N-Dimensional Adaptive Quadrature", ACM Transactions on Mathematical Software (TOMS), March 1979, pages 86-96.	
	B5	Y. Ozdogan, "Seismic Data Processing", Society of Exploration Geophysics, Tulsa, OK, 1991, pg. 514-515.	
	C5	S. Norris, et al., "Modeling Fluid Flow Around Horizontal Wellbores", Proceedings: SPE Annual Technical Conference and Exhibition 1990 Part 4, New Orleans, LA September 23-26, 1990, Vol. SIGMA, pp. 65-75.	
	D5	P. Perrochet, "Finite Hyperelements: A 4D Geometrical Framework Using Coariant Baes and Metric Tensors" COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, June 1995, UK, vol. 11, no. 6, pgs 525-534	
	E5	J.M.M. Regtien, et al., "Interactive Reservoir Simulation", Proceedings of the 13th Symposium on Reservoir Simulation, San Antonio, TX February 12-15, pgs. 545-552.	
	F5	C. Buckalew, et al., "Oilfield Visualization on the PC Platform", 2000 SPE/AAPG Western Regional Meeting, June 19-23, 2000, pgs 1-5.	
	G5	E. Farkas, "Linearization Techniques of Reservoir Simulation Equations: Fully Implicit Cases, Proceedings of the 1997 SPE Reservoir Simulation Symposium, Dallas, Texas June 8-11, 1997, pgs 87-95.	
	H5	E. Farkas, "Linearization Techniques of Reservoir Simulation Equations: Fully Implicit Cases, Richardson, Texas, December 1998, Vol. 3, no. 4, pgs. 316-323.	
	I5	P. Benedeck, "Capacitances of Planar Multiconductor Configuration on a Dielectric Substrate by a Mixed Order Finite-Element Method, IEEE1974.	
	J5	Fu, et al., "Time Integration Procedures for a Cyclic Thermoviscoelasticity Model for Pb-Sn solder applications, IEEE 1996.	

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	A6	P. J. Zwart, et al., "Space-Time Meshing for Two-Dimensional Moving Boundary Problems", Proceedings of the Seventh International Meshing Roundtable, pgs 187-199, 1998.	
	B6	S. L. Ho, et al., "Generation and Rotation of 3-D Finite Element Mesh for Skewed Rotor Induction Motors Using Extrusion Technique", IEEE Transactions on Magnetics, pgs 1266-1269, May 1999.	
	C6		
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